

Amendments to the Specification:

Please replace the paragraph beginning on page 23, line 19 and ending on line 24 with the following amended paragraph:

This simplified Green's function is the analytical solution for a point source in the semi-infinite slab using the partial-current boundary condition:

$$G_{ij} = \frac{1}{2\pi D} \left\{ \frac{\exp(-\mu_{\text{eff}} r_{ij})}{r_{ij}} - \frac{1}{z_b} \exp(r_{ij}/z_b) E_1[(\mu_{\text{eff}} + \frac{1}{z_b})r_{ij}] \right\} \quad (7)$$

Here $r_{ij} = |x_j - x_i|$, E_1 is the first order exponential integral and

$$\mu_{\text{eff}} = [3\mu_A(\mu_A + \mu_S')] \quad (8) \quad \mu_{\text{eff}} = \sqrt{3\mu_A(\mu_A + \mu_S')} \quad (8)$$

$$z_b = \frac{2D}{c} \frac{1 + R_{\text{eff}}}{1 - R_{\text{eff}}} \quad (9)$$